

US-PAT-NO: 6034759

DOCUMENT-IDENTIFIER: US 6034759 A

TITLE: Image processing apparatus
and photographic printing
apparatus

DATE-ISSUED: March 7, 2000

US-CL-CURRENT: 355/41, 355/40 , 382/171

APPL-NO: 09/ 039232

DATE FILED: March 16, 1998

COUNTRY	FOREIGN-APPL-PRIORITY-DATA:
APPL-DATE	APPL-NO
JP	9-068677
21, 1997	March

----- KWIC -----

Detailed Description Text - DETX (25):

It is determined whether, based on data (image data) obtained by separating, into three colors of red, green, and blue, each of a large number of measuring points into which an image is divided, each of the measuring points is included in a skin-color range on the color coordinates. The region in which a cluster (group) of the measuring points judged to be

included in the skin-color range
exists is extracted as the face region candidate.

Detailed Description Text - DETX (79):

On the other hand, in FIG. 9C, in step 290, it is determined whether the color of the face region extracted in step 201 is a skin color based on image data of the face region. When the color of the face region is a skin color, in step 274, "1" is substituted for the automatic print flag. When the color of the face region is not a skin color, in step 276, "0" is substituted for the automatic print flag.

Detailed Description Text - DETX (80):

In other words, the second scene determination processing shown in FIG. 9C is a method which determines whether automatic printing is carried out or not based on whether the color of the face region extracted by the face-region extraction processing is a skin color.

Detailed Description Text - DETX (85):

Further, in each of the above-described embodiments, the case was described in which when the face region is specified, the substantially central position of the face region is specified by using a crosshair cursor, and the person's outline region including the specified position is set as the face region, but the present invention is not limited to the same. For example, there may also be used a method in which a skin color portion of a

face region is enclosed by
a rectangular frame of an arbitrary size, image
data of multiple pixels within
the enclosed rectangular frame is extracted, and
the average density of the
extracted image data is used, as the face-region
average density FD, for
calculation of exposure amount.